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STAUFFER CHEMICAL COMPANY
WESTERN RESEARCH CENTER

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TOXICOLOGY LAB REPORT T-4011

August 11, 1972

TECHNICAL IMIDAN

I. OBJECTIVE

To evaluate the chronic effects of technical Imidan vapors on rats.

II. MATERIALS

- Technical Imidan samples: 1. Lot #770-165 (95.6 WT. %),
2. Lot #270-46 (95.0 WT. %).

III. SUMMARY

Eighteen, daily, two hour exposures to the concentrated vapors of technical Imidan produced no apparent signs of organo-phosphate poisoning. However, signs of nausea, eye irritation and respiratory difficulties were observed during the exposure period; these signs of irritation cleared within a few minutes after removal from the chamber.

IV. PROCEDURE

Five male and five female Sprague Dawley white albino rats were used in this study. The animals were exposed for two hours daily, except weekends, for a total of eighteen exposures. The exposures were performed in an eight cubic foot plexiglass static inhalation chamber. The test materials were blended together and a composite sample of one-hundred grams was used in the exposure chamber. The vapors were allowed to accumulate before placing the animals in the chamber. The test animals were observed for seven days after the final exposure and then sacrificed and necropsied.

V. RESULTS

A. Mortality

No mortalities were observed in any of the test rats after eighteen exposures.

B. Signs of Toxicity

The test animals exhibited gasping, blinking of the eyes, gagging and depression during the exposures.

C. Gross Pathology

All test animals appeared normal when necropsied seven days after the final exposure.

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